

IFN
JF

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/767,873	01/29/2004	Mark C. Boner	042716.004

25461
 SMITH, GAMBRELL & RUSSELL, LLP
 SUITE 3100, PROMENADE II
 1230 PEACHTREE STREET, N.E.
 ATLANTA, GA 30309-3592

CONFIRMATION NO. 4126

FORMALITIES LETTER



OC000000012953317

Date Mailed: 06/15/2004

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted***Items Required To Avoid Abandonment:**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$ 385 to complete the basic filing fee for a small entity.
- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Additional claim fees of **\$115** as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is **\$565** for a Small Entity

- **\$385** Statutory basic filing fee.
- **\$65** Late oath or declaration Surcharge.
- Total additional claim fee(s) for this application is **\$115**

07/26/2004 FFANAI2 00000066 10767873	
01 FC:2001	385.00 OP
02 FC:2051	65.00 OP
03 FC:2201	43.00 OP
04 FC:2202	72.00 OP

- **\$43 for 1 independent claims over 3.**
- **\$72 for 8 total claims over 20.**

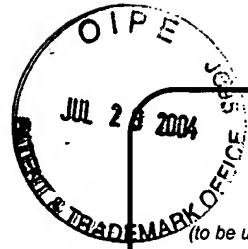
Replies should be mailed to: Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

*A copy of this notice **MUST** be returned with the reply.*

T.C.Vu
Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

9

Application Number	10/767,873
Filing Date	01/29/2004
First Named Inventor	BONER, Mark C. et al.
Art Unit	3753
Examiner Name	To Be Assigned

Attorney Docket Number

042716.004

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input checked="" type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Response to Missing Parts/ Incomplete Application <input checked="" type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input checked="" type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <small>(please identify below):</small> Return Receipt Postcard
---	---	---

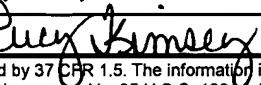
Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Eric J. Hanson, Reg. No. 44,738
Signature	
Date	July 21, 2004

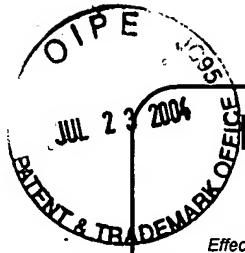
CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Lucy Kimsey
Signature	
Date	July 21, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

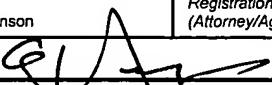
 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 565)

Complete if Known	
Application Number	10/767,873
Filing Date	01/29/2004
First Named Inventor	BONER, Mark C., et al.
Examiner Name	To Be Assigned
Art Unit	3753
Attorney Docket No.	042716.004

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)																																																																																																																																					
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Deposit Account: Deposit Account Number <input type="text"/> Deposit Account Name <input type="text"/>				3. ADDITIONAL FEES <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Fee Code</td><td>Fee (\$)</td><td>Fee Code (\$)</td><td></td></tr> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td></tr> <tr><td>1503</td><td>640</td><td>2503</td><td>320</td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td></tr> <tr><td colspan="4">Other fee (specify) _____</td></tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3) (\$ 65)</td> </tr> </tbody> </table>				Large Entity	Small Entity	Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code (\$)		1051	130	2051	65	1052	50	2052	25	1053	130	1053	130	1812	2,520	1812	2,520	1804	920*	1804	920*	1805	1,840*	1805	1,840*	1251	110	2251	55	1252	420	2252	210	1253	950	2253	475	1254	1,480	2254	740	1255	2,010	2255	1,005	1401	330	2401	165	1402	330	2402	165	1403	290	2403	145	1451	1,510	1451	1,510	1452	110	2452	55	1453	1,330	2453	665	1501	1,330	2501	665	1502	480	2502	240	1503	640	2503	320	1460	130	1460	130	1807	50	1807	50	1806	180	1806	180	8021	40	8021	40	1809	770	2809	385	1810	770	2810	385	1801	770	2801	385	1802	900	1802	900	Other fee (specify) _____				*Reduced by Basic Filing Fee Paid				SUBTOTAL (3) (\$ 65)	
Large Entity	Small Entity	Fee Description	Fee Paid																																																																																																																																						
Fee Code	Fee (\$)	Fee Code (\$)																																																																																																																																							
1051	130	2051	65																																																																																																																																						
1052	50	2052	25																																																																																																																																						
1053	130	1053	130																																																																																																																																						
1812	2,520	1812	2,520																																																																																																																																						
1804	920*	1804	920*																																																																																																																																						
1805	1,840*	1805	1,840*																																																																																																																																						
1251	110	2251	55																																																																																																																																						
1252	420	2252	210																																																																																																																																						
1253	950	2253	475																																																																																																																																						
1254	1,480	2254	740																																																																																																																																						
1255	2,010	2255	1,005																																																																																																																																						
1401	330	2401	165																																																																																																																																						
1402	330	2402	165																																																																																																																																						
1403	290	2403	145																																																																																																																																						
1451	1,510	1451	1,510																																																																																																																																						
1452	110	2452	55																																																																																																																																						
1453	1,330	2453	665																																																																																																																																						
1501	1,330	2501	665																																																																																																																																						
1502	480	2502	240																																																																																																																																						
1503	640	2503	320																																																																																																																																						
1460	130	1460	130																																																																																																																																						
1807	50	1807	50																																																																																																																																						
1806	180	1806	180																																																																																																																																						
8021	40	8021	40																																																																																																																																						
1809	770	2809	385																																																																																																																																						
1810	770	2810	385																																																																																																																																						
1801	770	2801	385																																																																																																																																						
1802	900	1802	900																																																																																																																																						
Other fee (specify) _____																																																																																																																																									
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3) (\$ 65)																																																																																																																																					
1. BASIC FILING FEE <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>Fee Code</td><td>Fee (\$)</td><td>Fee Code (\$)</td><td></td></tr> <tr><td>1001</td><td>770</td><td>2001</td><td>385</td></tr> <tr><td>1002</td><td>340</td><td>2002</td><td>170</td></tr> <tr><td>1003</td><td>530</td><td>2003</td><td>265</td></tr> <tr><td>1004</td><td>770</td><td>2004</td><td>385</td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td></tr> <tr><td colspan="4">SUBTOTAL (1) (\$ 385)</td></tr> </tbody> </table>				Large Entity	Small Entity	Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code (\$)		1001	770	2001	385	1002	340	2002	170	1003	530	2003	265	1004	770	2004	385	1005	160	2005	80	SUBTOTAL (1) (\$ 385)				2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>28</td><td>-20 **</td><td>= 8</td><td>X 9 = 72</td></tr> <tr><td>4</td><td>-3 **</td><td>= 1</td><td>X 43 = 43</td></tr> <tr><td colspan="4">Multiple Dependent X = 0</td></tr> <tr><td colspan="4">SUBTOTAL (2) (\$ 115)</td></tr> </tbody> </table>				Total Claims	Extra Claims	Fee from below	Fee Paid	28	-20 **	= 8	X 9 = 72	4	-3 **	= 1	X 43 = 43	Multiple Dependent X = 0				SUBTOTAL (2) (\$ 115)																																																																																	
Large Entity	Small Entity	Fee Description	Fee Paid																																																																																																																																						
Fee Code	Fee (\$)	Fee Code (\$)																																																																																																																																							
1001	770	2001	385																																																																																																																																						
1002	340	2002	170																																																																																																																																						
1003	530	2003	265																																																																																																																																						
1004	770	2004	385																																																																																																																																						
1005	160	2005	80																																																																																																																																						
SUBTOTAL (1) (\$ 385)																																																																																																																																									
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																						
28	-20 **	= 8	X 9 = 72																																																																																																																																						
4	-3 **	= 1	X 43 = 43																																																																																																																																						
Multiple Dependent X = 0																																																																																																																																									
SUBTOTAL (2) (\$ 115)																																																																																																																																									

*For number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)		
Name (Print/Type)	Eric J. Hanson	Registration No. (Attorney/Agent)	44,738	Telephone (404) 815-3706
Signature				Date July 29 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : **10/767,873** Confirmation No. **4126**
Applicant(s) : **BONER, Mark C. et al.**
Filed : **01/29/2004**
TC/A.U. : **3753**
Examiner : **To Be Assigned**
Title : **Apparatus and Method for Fluid Flow Control**

Docket No. : **042716.004**
Customer No. : **25461**

Mail Stop MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

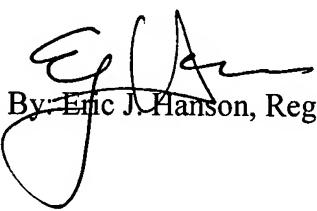
Sir:

FORMAL DRAWING TRANSMITTAL LETTER

Applicants submit 2 sheets of formal drawings for the above-identified patent application, including Figs. 1 through 3 on A4 paper. Approval of these formal drawings is respectfully requested.

Respectfully submitted,

SMITH, GAMBRELL & RUSSELL, LLP

By:  Eric J. Hanson, Reg. No. 44,738

Dated: July 21, 2004
Suite 3100, Promenade II
1230 Peachtree Street, N.E.
Atlanta, Georgia 30309-3592
Phone: (404) 815-3706
Fax: (404) 685-7006